Claims:

This listing of claims will replace the listing of the claims in the application

Listing of Claims:

- 1. (Original) A catalyst composition comprising a molecular sieve, hydrotalcite, and a rare earth metal component.
- (Original) The catalyst composition of claim 1, wherein the molecular sieve is selected
 from silicoaluminophosphates, aluminophosphates, metal-containing forms thereof and
 mixtures, including intergrowths, thereof.
- (Original) The catalyst composition of claim 1, wherein the molecular sieve is selected from SAPO-5, SAPO-8, SAPO-11, SAPO-16, SAPO-17, SAPO-18, SAPO-20, SAPO-31, SAPO-34, SAPO-35, SAPO-36, SAPO-37, SAPO-40, SAPO-41, SAPO-42, SAPO-44, SAPO-47, SAPO-56, AlPO-5, AlPO-11, AlPO-18, AlPO-31, AlPO-34, AlPO-36, AlPO-37, AlPO-46, MCM-2, metal-containing forms thereof, and mixtures, including intergrowths, thereof.
- 4. (Original) The catalyst composition of claim 1, wherein the molecular sieve is selected from SAPO-18, SAPO-34, SAPO-35, SAPO-44, SAPO-47, ALPO-34, metal-containing forms thereof, and mixtures, including intergrowths, thereof.
- (Original) The catalyst composition of claim 1, wherein the molecular sieve is SAPO-34, SAPO-18, an intergrowth of SAPO-34 and SAPO-18, GeAPO-34, GeAPO-18 or an intergrowth of GeAPO-34 and GeAPO-18.
- 6. (Original) The catalyst composition of claim 1, wherein the rare earth metal is lanthanum.

- 7. (Original) The catalyst composition of claim 1, wherein the composition comprises from 10 to 90 wt % of the molecular sieve, from 10 to 90 wt % of the hydrotalcite, and from 0.1 to 5 wt % of the rare earth metal component, wherein the weight percents are based on the total weight of the molecular sieve, the hydrotalcite, and the rare earth metal component.
- 8. (Original) A catalyst composition comprising:
 - (a) an aluminophosphate or silicoaluminophosphate molecular sieve selected from SAPO-5, SAPO-8, SAPO-11, SAPO-16, SAPO-17, SAPO-18, SAPO-20, SAPO-31, SAPO-34, SAPO-35, SAPO-36, SAPO-37, SAPO-40, SAPO-41, SAPO-42, SAPO-44, SAPO-47, SAPO-56, AlPO-5, AlPO-11, AlPO-18, AlPO-31, AlPO-34, AlPO-36, AlPO-37, AlPO-46, MCM-2, metal-containing forms thereof, and mixtures, including intergrowths, thereof; and
 - (b) hydrotalcite.
- (Original) The catalyst composition of claim 8, wherein the molecular sieve is selected from SAPO-18, SAPO-34, SAPO-35, SAPO-44, SAPO-47, ALPO-34, metal-containing forms thereof, and mixtures, including intergrowths, thereof.
- 10. (Original) The catalyst composition of claim 8, wherein the molecular sieve is SAPO-34, SAPO-18, an intergrowth of SAPO-34 and SAPO-18, GeAPO-34, GeAPO-18, or an intergrowth of GeAPO-34 and GeAPO-18.
- 11. (Original) The catalyst composition of claim 8, comprising the molecular sieve in an amount of from 10 to 90 wt %, and the hydrotalcite in an amount of from 10 to 90 wt %, wherein the weight percents are based on the total weight of the molecular sieve and the hydrotalcite.

- 12. (Original) The catalyst composition of claim 8, further comprising a rare earth metal component.
- 13. (Original) The catalyst composition of claim 12, comprising the molecular sieve in an amount of from 10 to 90 wt %, the hydrotalcite in an amount of from 10 to 90 wt %, and the rare earth metal component in an amount of from 0.1 to 5 wt %, wherein the weight percents are based on the total weight of the molecular sieve, the hydrotalcite and the rare earth metal component.
- 14. (Original) The catalyst composition of claim 12, wherein the rare earth metal component is lanthanum.
- 15. (Original) A process for producing a molecular sieve catalyst composition, the process comprising:
 - (a) providing a molecular sieve;
 - (b) providing a hydrotalcite composition comprising hydrotalcite and a rare earth metal component; and
 - (c) combining the molecular sieve and the hydrotalcite composition to produce a molecular sieve catalyst composition.
- 16. (Original) The process of claim 15, wherein the molecular sieve is selected from silicoaluminophosphates, aluminophosphates, metal-containing forms thereof and mixtures, including intergrowths, thereof.
- (Original) The process of claim 15, wherein the molecular sieve is selected from SAPO-5, SAPO-8, SAPO-11, SAPO-16, SAPO-17, SAPO-18, SAPO-20, SAPO-31, SAPO-34, SAPO-35, SAPO-36, SAPO-37, SAPO-40, SAPO-41, SAPO-42, SAPO-44, SAPO-47, SAPO-56, AlPO-5, AlPO-11, AlPO-18, AlPO-31, AlPO-34, AlPO-36, AlPO-37, AlPO-

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- 46, MCM-2, metal-containing forms thereof, and mixtures, including intergrowths, thereof.
- 18. (Original) The process of claim 15, wherein the molecular sieve is selected from SAPO-18, SAPO-34, SAPO-35, SAPO-44, SAPO-47, ALPO-34, metal-containing forms thereof, and mixtures, including intergrowths, thereof.
- (Original) The process of claim 15, wherein the molecular sieve is SAPO-34, an intergrowth of SAPO-34 and SAPO-18, or GeAPO-34.
- 20. (Original) The process of claim 15, wherein the rare earth metal component is lanthanum.
- 21. (Original) The process of claim 15, wherein the molecular sieve catalyst composition comprises from 10 to 90 wt % of the molecular sieve, from 10 to 90 wt % of the hydrotalcite, and from 0.1 to 5 wt % of the rare earth metal component, wherein the weight percents are based on the total weight of the molecular sieve, the hydrotalcite, and the rare earth metal component.
- 22. (Original) The process of claim 15, wherein the step of providing a hydrotalcite composition comprises:
 - (i) providing a solution of a rare earth metal compound;
 - (ii) treating hydrotalcite with said solution; and
 - (iii) drying the treated hydrotalcite to form a dried hydrotalcite composition.
- 23. (Original) The process of claim 22, wherein the rare earth metal compound is selected from halides, oxides, oxyhalides, hydroxides, sulfides, sulfonates, borides, borates, carbonates, nitrates, carboxylates and mixtures thereof.

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- 24. (Original) The process of claim 22, wherein the solution is an aqueous solution.
- 25. (Original) The process of claim 22, further comprising (iv) calcining the dried hydrotalcite composition.
- 26. (Original) The process of claim 15, wherein the step of combining comprises:
 - (i) forming a slurry comprising the molecular sieve and the hydrotalcite composition; and
 - (ii) drying the slurry to form a dried, formulated molecular sieve catalyst composition.
- 27. (Original) The process of claim 26, wherein the slurry comprises a liquid, molecular sieve, hydrotalcite and a rare earth metal compound.
- 28. (Original) The process of claim 27, wherein the rare earth metal compound is selected from halides, oxides, oxyhalides, hydroxides, sulfides, sulfonates, borides, borates, carbonates, nitrates, carboxylates and mixtures thereof.
- 29. (Original) The process of claim 27, wherein the rare earth metal compound is soluble in the liquid.
- 30. (Original) The process of claim 27, wherein the rare earth compound and the hydrotalcite are pre-contacted to form the hydrotalcite composition.
- 31. (Original) The process of claim 30, wherein the step of pre-contacting comprises:
 - (i) providing a solution of a rare earth metal compound;
 - (ii) treating hydrotalcite with said solution; and
 - (iii) drying the treated hydrotalcite to form a dried hydrotalcite composition.

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- (Original) The process of claim 27, wherein the liquid comprises at least one of water, an 32. alcohol, a ketone, an aldehyde, or an ester.
- (Original) The process of claim 26, wherein the step of drying comprises spray drying. 33.
- 34. (Original) A process for converting a hydrocarbon oxygenate feedstock to olefins, the process comprising contacting the feedstock with a catalyst composition comprising:
 - (a) a molecular sieve; and
 - (b) hydrotalcite; under catalytic conversion conditions, to form a product mixture comprising olefins.
- 35. (Original) The process of claim 34, wherein the molecular sieve is selected from silicoaluminophosphates, aluminophosphates, metal-containing forms thereof and mixtures, including intergrowths, thereof.
- (Original) The process of claim 34, wherein the molecular sieve is selected from SAPO-36. 5, SAPO-8, SAPO-11, SAPO-16, SAPO-17, SAPO-18, SAPO-20, SAPO-31, SAPO-34, SAPO-35, SAPO-36, SAPO-37, SAPO-40, SAPO-41, SAPO-42, SAPO-44, SAPO-47, SAPO-56, AlPO-5, AlPO-11, AlPO-18, AlPO-31, AlPO-34, AlPO-36, AlPO-37, AlPO-46, MCM-2, metal-containing forms thereof, and mixtures, including intergrowths, thereof.
- (Original) The process of claim 34, wherein the molecular sieve is selected from SAPO-37. 18, SAPO-34, SAPO-35, SAPO-44, SAPO-47, ALPO-34, metal-containing forms thereof, and mixtures, including intergrowths, thereof.
- (Original) The process of claim 34, wherein the molecular sieve is SAPO-34, SAPO-18, 38. an intergrowth of SAPO-34 and SAPO-18, GeAPO-34, GeAPO-18 or an intergrowth of GeAPO-34 and GeAPO-18.

- 39. (Original) The process of claim 34, wherein the catalyst composition comprises the molecular sieve in an amount of from 10 to 90 wt %, and the hydrotalcite in an amount of from 10 to 90 wt %, wherein the weight percents are based on the total weight of the molecular sieve and the hydrotalcite.
- 40. (Original) The process of claim 34, wherein the catalyst composition further comprises a rare earth metal component.
- 41. (Original) The process of claim 40, wherein the catalyst composition comprises the molecular sieve in an amount of from 10 to 90 wt %, the hydrotalcite in an amount of from 10 to 90 wt %, and the rare earth metal component in an amount of from 0.1 to 5 wt %, wherein the weight percents are based on the total weight of the molecular sieve, the hydrotalcite and the rare earth metal component.
- 42. (Original) The process of claim 40, wherein the rare earth metal component is lanthanum.
- 43. (Original) The process of claim 34, wherein the feedstock comprises methanol and product mixture comprises ethylene and propylene.